



Update

MISSOURI DEPARTMENT OF ELEMENTARY
AND SECONDARY EDUCATION

“Summer Issue”



Issue 31
July 2005

Technology Education and Related Information

NOTE: My email address has changed! you will need to update with w.doug.miller@dese.mo.gov.

Career Education Mentoring Program. The Career Education Mentoring Program completed another successful year with 248 protégés and 231 mentors participating. Guidance counselors were included for the first time. During the upcoming school year, the Department's guidance staff will be working on a mentoring program in conjunction with the Missouri School Counselor's Association which complements the existing division program.

September 19 and 20 will be the kickoff for this year's Career Education Mentoring Program. Barry Sweeney, a national expert on mentoring, will be the featured presenter. Mentors will complete a half-day of training prior to being joined by their protégés during evening team building activities. The application form and more information at: http://dese.mo.gov/divcareered/mentoring_program.htm.

High Quality Professional Development Model, The MCCE (Missouri Center for Career Education) was awarded the DESE contract to develop several regional workshops around the state to provide specific training on the Exploring Careers Curriculum Model. Technology Education content area will be the first utilize the regional professional development workshops. You will find the philosophy, rationale, scope and sequence within the Exploring Careers through Technology Education curriculum. For more information, contact Ben Yates via email byates@cmsu1.cmsu.edu or by phone number (660) 543-4304.

Project Lead The Way (PLTW) – We now have 33 schools that are currently offering the program or implementing the program this coming fall. The University of Missouri-Rolla will be our Missouri PLTW State Affiliate Leader in collaboration with Central Missouri State University and St. Louis Community College will be responsible for coordinating our state leadership team, summer teacher institute and college credit for all Missouri students and teachers.

For more information about PLTW go to: http://dese.mo.gov/divcareered/pltw_network.htm.

Kuder — We are pleased to announce that funding to renew the Missouri Career Planning System, powered by Kuder, has been secured through the Missouri Higher Education Loan Authority (MOHELA) and the Missouri Department of Education. This statewide initiative is for all Missouri students, grades 7-14 in public schools, to access customized, on-line career assessment and planning resources.

Many major enhancements are being added to the Kuder system over the summer including occupational comparison and a scholarship search feature. The administrative database will have a new look and more intuitive navigation as well as standard Quick Reports, the ability to reset student passwords, and more. Enhancement details will be coming in August, so please watch your e-mail and the announcement section of your administrative database for additional information.

Kuder will be adding a state representative for Missouri to assist with the use of the Missouri Career Planning System. This individual will be dedicated to providing one-on-one support to all schools throughout the state and will attend training, meetings, presentations, and conferences as well. Please look for additional details in August.

Career Education Division Strategic Plan Information

Career Education and Non-Career Education percent of students scoring proficient or above on the MAP

	2001		2002		2003		2004	
Mathematics	State	CarEd	State	CarEd	State	CarEd	State	CarEd
Grade 10	13.0	10.5	11.1	8.5	12.7	10.9	15.8	13
Gap	2.5		2.6		1.8		2.8	
Communication Arts	State	CarEd	State	CarEd	State	CarEd	State	CarEd
Grade 11	24.2	16.6	25.4	17.7	24.1	16.4	25.0	17.1
Gap	7.6		7.7		7.7		7.9	

Career Education percent of Non-Minority (NMin) and Minority (Min) students scoring proficient or above on the MAP

	2001		2002		2003		2004	
Mathematics	NMin	Min	NMin	Min	NMin	Min	NMin	Min
Grade 10	11.5	2.1	9.3	1.9	11.9	1.8	14.0	3.0
Gap	9.4		7.4		10.1		11	
Communication Arts								
Grade 11	17.8	6.1	19.3	7.4	17.7	5.4	18.2	7.4
Gap	11.7		11.9		12.3		10.8	

Source: MAP, May 2005

About the measure: Non-minority students are “white, not Hispanic” and minority students are “black” and “Hispanic.” The percentages represent students scoring at the proficient and advanced levels on the MAP.

On June 6, 2005, Core Data indicated that 220 (8.6%) of 2,540 career education teachers were inappropriately certificated. This compares to 416 (.006%) of 65,005 classroom teachers for the entire state.

The turnover or dropout rate of career education teachers was 13% in comparison to 7% for all teachers in 2004.

The percent of career education teachers that reported that they are participating was 80.3% in 2005. This rate is similar to that of all K-12 teachers.

The percent of area career centers with 90% of the staff reporting that they received High Quality Professional Development (HQPD) was 58% of the centers in 2004. Four (4) of the centers did not report at all.

4th Cycle MSIP The 4th Cycle MSIP will begin with the 2006-07 school year. Jean Cole, Doug Sutton, and Don Walker have represented the Division of Career Education on the Interdivisional Department School Improvement Committee (I-DISC) to finalize all details for processes and procedures that will be used during the 4th cycle.

The emphasis for 4th Cycle MSIP will be placed on performance. It is anticipated that there will be a small number (approximately 20) of districts that will actually have an on-site technical assistance review performed by a visiting team of educators.

High School Graduation Requirements There is a handout in your folder showing the current high school graduation requirements and the new recommended requirements. The 30-day public comment period starts August 1. The website to the proposed rule is <http://www.dese.mo.gov/news/2005/gradrequirements.htm>.

Missouri Student Information System (MOSIS) We have shared with you over the last year that the Department is moving towards assigning a statewide student identifier for every student in pre-kindergarten, kindergarten, elementary, and secondary public education in the State. The process is moving. School districts started uploading batches of data to the Department to have the 10-digit number randomly assigned. For the MAP Tests given next spring, the bubble sheets will have the 10-digit number on them. The next phase of the MOSIS will be for the Department to identify the data elements to collect for other programs, services, and activities.

The website for MOSIS is <http://www.dese.mo.gov/MOSIS/>.

Curriculum

ITEA—CATTS (Center for Advancing the Teaching of Technology and Science—

The Center to Advance the Teaching of Technology & Science (CATTS) was established in 1998 to strengthen professional development and advance technological literacy. CATTS initiatives are directed toward four goals: development of standards-based curricula; teacher enhancement; research concerning teaching and learning; and curriculum implementation and diffusion.



Because Missouri was a CATTS Consortium member in the years shown on the web link below, the CATTS materials developed in those years are provided here for use in promoting technological literacy. These links are for your convenience and are not intended to be shared with others outside of Missouri. However, you may copy these resources to a CD or print them for dissemination to teachers and others within Missouri. For more information go to: <http://www.iteaconnect.org/CATTSresources/CATTSresourcesMO01.html>.

Technology Education TSA National Curriculum! After several years of development and field-testing in technology classrooms, TECHKnow is now available. TECHKnow was written by, and for, Technology Teachers and their classroom. The TECHKnow Project consists of 20 units of study, carefully incorporating the Standards for Technological Literacy and all of the units correspond to TSA Competitive Events. Ten units were developed for Middle School and 10 units for the High School level. One book containing 5 units for the Middle School, and one book containing 5 units for the High School, will be available for the 2004-2005 school year. The second book for each level will be available late summer of 2005.



For more information go to <http://www.cplearning.com/>



Announcing, A New National TSA Mentoring Program! The Mentor Program is an opportunity for you and your chapter to develop a friendship with another TSA chapter, use leadership skills in providing assistance, and to pass along ideas and tips that have helped strengthen your chapter. If you have had a TSA chapter for more than a year, we invite you to become a Mentor chapter.

For more information go to <http://www.tsaweb.org/get.php?page=/membership/mentor.html>.

2005 State Conference Was A Great One! The 2004-2005 State Officer team did an excellent job preparing a top notch conference that represented Technology Education and TSA very well. You can view and download a full report of the conference at: http://dese.mo.gov/divcareered/tsa_state_leadership_conference.htm.

2005 National TSA Conference, Chicago, Illinois June 28- July 2, 2005! What a great conference! It was located only 4 blocks from the famous Navy Pier overlooking Lake Michigan in Chicago, Illinois, Sheraton Chicago Hotel & Towers. We are proud of our Missouri chapters and the astonishing number of top ten awards winners who appeared on stage during the awards ceremony.



<u>High School Event</u>	<u>Place</u>	<u>Awardees</u>
Ag and Biotech Design	9 th Place	TEAM Clinton High School
CAD 2D Architectural.....	10 th Place	Ashley Fansher Benton High School
CAD 3D Engineering	3 rd Place	Greg Damron Troy Buchanan High School
Constructions Systems	3 rd Place	TEAM Parkway South High School
Dragster Design.....	5 th Place	Alex Cotton Fort Zumwalt West High School
Film Technology	6 th Place	TEAM Benton High School
Imaging Technology	8 th Place	Laine Shay Clinton High School
Medical Technology.....	2 nd Place	TEAM Clinton High School
Robotics.....	2 nd Place	TEAM Fort Zumwalt North High School
Structural Engineering	7 th Place	TEAM Parkway South High School

To view the complete winners report go to <http://www.tsaweb.org/content.asp?contentid=591>

8th Annual Fall Leadership Connections Conference – The 8th Annual Missouri TSA Fall Leadership Connections Conference, October 20-22, 2005, Ramada Inn of Jefferson City, MO promises to be fun and exciting. The State Officer team has spent many hours in preparation to make this year one of the best ever! You will want to make plans now to be a part of this rewarding event.

The benefits of bringing your chapter officers to this conference will provide your student leaders the opportunity to develop your leadership skills and network with other Technology Education teachers and students from across the state. For more information about Fall Leadership Connections Conference go to:

http://dese.mo.gov/divcareered/tsa_fall_leadership_conference.htm.

Leadership Connections Degree Program – There is a self-study degree program available on-line to all Missouri TSA students. Students will find the content, requirements, practice test and the application needed to receive the respective award. They are progressive and the first degree is the “Basic Degree” which is earned at our Annual Fall Leadership Connections Conference. The second degree is the “Academic Degree”, the third degree is the “Collegiate Degree” and the fourth degree is the “Scholar Degree”. These degrees are available for all Missouri TSA members who have completed of the respective requirements. For more information go to:

http://www.dese.state.mo.us/divvoted/tsa_lcdp.htm

Are You Planning to Start a TSA Chapter? Then you should begin by reviewing the “10 Steps To Starting a Chapter” found on our website at: http://dese.mo.gov/divcareered/tsa_information.htm. I would encourage you to plan to attend the “Missouri TSA Fall Leadership Connections Conference” in early October with your officers or officers to be. This conference will train your officers in every aspect of what they need to run your TSA chapter and how to work together as a team. You can learn more about all of our conferences at

http://dese.mo.gov/divcareered/tsa_student_conferences.htm. You can find information about the yearly affiliation of your members at http://dese.mo.gov/divcareered/tsa_members.htm.

TSA Chapter Affiliation Forms and Dues You can find the chapter affiliation form to register your chapter for the 2005-2006 school year at: http://dese.mo.gov/divcareered/tsa_membership_information.htm. There are a few changes that will need to make note of in regards to the dues. National Individual dues will be \$9 and CAP dues will be a flat rate of \$350 with NO discounts for multiple schools. Missouri dues are still the same with individual dues at \$3 and CAP at \$115.

Technology Education Resources

New Technology Education Scope and Sequence Technology Education available online, [scope and sequence map](#) will provide a quick summary of program expectations for Technology Education programs across the state. The map is designed to serve as a companion to the new [Missouri Technology Education Guide](#) and the [Program Standards](#) for program improvement and alignment. In addition, each document supports the [Technology Education Grant Awards Program](#) that can be utilized by schools to support program improvement efforts.



Missouri Technology Education Guide (version 2.2) – A Newly Revised copy of the MOTE Guide has been posted to our web site with a complete revision of chapter 3 on the Technology Education Scope and Sequence. You can view or download the latest version at http://dese.mo.gov/divcareered/teched_curriculum.htm. You will notice on the “Curriculum” web site that we have created separate document of each chapter for quicker download and use. In addition, you can still download and review the complete guide that has interactive links embedded throughout the guide for accessing all of the ITEA elementary, middle school and high school curriculum developed by ITEA and the CATTs consortium. If you have questions about the guide, you can contact Doug Miller at W.Doug.Miller@dese.mo.gov.

ICON -- or the **Innovation Curriculum Online Network**, is a central source for information dealing with technology and innovation, and serves as an electronic roadmap to connect users, such as teachers, professors, students, museum staff, and parents with information about the human built and innovated world.



ICON also provides a broad and deep collection of technological literacy resources for teachers and educators, digital resources informed by educational and digital library standards, necessary descriptors, metadata, and developmentally appropriate content for technological literacy support. The collection is populated and classified according to the [Standards for Technological Literacy](#).

2005-2006 Program of Activities (Calendar)

September 2005

- 1 Thursday.....Fiscal Membership Year Begins
- 10 SaturdayTSA's Official 27th Anniversary
- 19 Monday.....Missouri TSA Fall Leadership Connections
Conference On-Line registration open
- 22 Thursday.....National School Scene (Fall Issue) posting
TSA Today (Fall Issue) posting

**October 2005**

- 1 SaturdayTEAM Fall Conference and Executive Board meeting, CMSU,
Warrensburg, MO
- 20-22 Thursday – Saturday.....Annual Fall Leadership Connections Conference, Jefferson City,
Ramada Inn.

November 2005

- 1 Tuesday.....School Scene (Winter Issue) Deadline
Missouri TSA Today Newsletter articles
Due at State Office
- 4 Friday.....**Chapter Affiliations – Priority membership due to National TSA
(includes state dues)**
- 4 Friday.....State Leadership Team Meeting, Jefferson City, MO, Governors Office
Building Rooms 315 — 316

December 2005

- 8-10 Thursday - Saturday.....ACTE Conference, New Orleans, LA

January 2006

- 2 Monday.....TE GAP RFGA for FY-2007 posted to the web
- 3 Tuesday.....School Scene (Winter Issue) Posting
TE GAP FY-2006 Mid Year Report form due
- 9 Monday.....State Officer Candidate Filing Form Due
- 27 Friday.....State Leadership Team Meeting —
TSA BOD meeting — State Officer Candidate Interviews
Jefferson City, MO, Governors Office Building,
Rooms 315 — 316

February 2006

- 1 WednesdayDEADLINE FOR CHAPTER AFFILIATIONS
- 1 WednesdaySchool Scene (Spring Issue) deadline
All Missouri TSA Awards Recognition applications are due
Missouri TSA Today Newsletter articles due at State Office
- TBATSO Governor's Proclamation Signing
- 6 Monday.....National TSA Conference Information posted to web site
- 6-10 Monday - FridayCareer and Technical Education Week
- 10 Friday.....School Scene (Spring Issue) Posted On-Line
- 20-24 Monday – Friday.....National Engineers Week

March 2006

- 11 Monday.....TSA State Conference On-Line Registration Open
- 29 Tuesday.....School Scene (spring issue) Posting
TSA Today (spring issue) Posting
- 23-25 Thursday - Saturday.....ITEA Conference, Baltimore, MD
- 31TE GAP FY-2007 Application due

April 2006

- 5 Friday National Officer Candidate application due to state advisor
6-8 Thursday - Saturday Missouri TSA State Leadership & Career Development Conference
Missouri TSA BOD meeting
CMSU, Warrensburg, MO
11 Tuesday Deadline for White Star Chapter recognition
17-21 Monday - Friday National Student Leadership Week
24-28 Monday - Friday National TSA Week

May 2006

- 1 Monday TE GAP FY-2006 FV-2 Form due
1 Monday Postmark date for the following applications and nominations are due to National TSA:
▪ Gold Achievement Program
▪ American Spirit Award
▪ Air Force Recruiting Salutes Award
▪ National officer candidate applications
▪ State Superlative Awards
▪ National Award and Recognition Program
12 Friday TE GAP FY-2006 Final Progress Report Form due
19 Friday Conference registration materials and fees due to National TSA (Copy faxed to State Advisor required)

June 2006

- 5 Monday National Officer candidate notification eligibility
5-9 Tuesday - Friday 2006-2007 State Officer Training (Required)
21-25 Wednesday--Sunday 28th Annual TSA Conference, Dallas, TX

July 2006

- 24-26 Monday-Wednesday Annual Missouri ACTE Summer Conference
▪ TSA Board of Directors meeting
▪ TSA All Advisors Meeting

Thoughts for Consideration

The following quotes are taken from "The Complete Book of Practical Proverbs & Wacky Wit" by Vern McLellan

"The reason most people change their minds is that they never find one worth keeping". Anonymous

"Almost everyone knows the difference between right and wrong, but some just hate to make decisions". Joseph Salak

"You can tell when you are on the right road—it's all uphill" Anonymous

"If you don't know where you are going, any road will get you there". Anonymous

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TE Update is an electronic newsletter
for Missouri Technology Education Professionals
A copy can be downloaded by going to:
http://dese.mo.gov/divcareered/teched_news.htm

To receive this newsletter
send an email request to W.Doug.Miller@dese.mo.gov
http://dese.mo.gov/divcareered/tech_ed_index.htm